

## ABSTRACT OF THE DISCLOSURE

### FILTER FOR SEGMENTING POWER LINES FOR COMMUNICATIONS

There is provided a method for blocking a portion of energy of a signal in a power line. The method includes equipping a high frequency magnetic core with a coil, connecting a capacitor across terminals of the coil to create a resonant circuit that resonates at a frequency of the signal, and placing the magnetic core around the power line, at a location where the blocking is desired.